Figure 114: 3D View dialog – Illumination tab

Trend and mean value lines

Trend lines help show the relationships among scattered data points of a data series. Calc has a good selection of regression types for creating trend lines: linear, logarithmic, exponential, power, polynomial, and moving average. Choose the type that comes closest to passing through all of the points in a data series.

Trend lines can be added to all 2D chart types except for pie, net, bubble, and stock charts. When inserted in the chart, representations of the trend lines are automatically shown in the chart legend.

> ✅ **Note**
>
> For chart types that use categories for the X axis, such as column, bar, or line charts, the numbers 1, 2, 3… are used as values for calculating trend lines. By contrast, XY (scatter) chart types show data rather than categories along the X axis. Thus, only XY (scatter) chart types can show meaningful regression equations.

Adding and modifying trend lines

Trend lines can only be added to one data series at a time. To add a trend line to a data series:

1) Double-click on the chart to enter edit mode. The chart should now be surrounded by a gray border.

2) Select the data series by doing one of the following:

   – Click once on a data series representation such as a bar, column, line, or point.

   – Select the data series from the *Select Chart Element* drop-down list on the Formatting toolbar.

3) Do one of the following to open the Trend Lines dialog (Figure 115):

   – Go to **Insert > Trend Line** on the Menu bar.